	68	28	28	23	23	67	67	29	99	36	25	9	99	9	29	25	23	25
*	MNSYKNKNEYEMLDALRINSNHSNCYPRYPLAKDPOMTMRNTNYKEWLNMCDSNTQFIGDISTYSSPE	MONNPALNECT PYNCL SNPEVE-VLGGER	MDMNPNINECIPYNCLSNPEVE-VLGGER	-MEEN-NQNOCIPYNCLSNPEEV-LLDGER	VEP	TEALDS	TEVLDS	TEVLDN	MAPPONKAEYETLAASOKKLAISAAYTRYPIENSPKOLLOSTAYKDULAMCOONOOYGGDFETFID		AI	MSPNNQNEYEIIDATP-STSVSSDSNRYPFANEPTDALQNMNYKDYLKNSGGENPE-L-FGNPET	MNPYQNKNEYE I FNAPSNGFSKSNNYSRYP LANKPNQPLKNTNYKDULNYCQDNQQYGNNAGNFAS	MHYYGNRNEYD I LNASSND SNMSNTY PRY P LANP QQD LMQNTNYKD U LNYCEGYH I ENP-REASVR	SS1	-		
9	LINECDSNICE	IPYNCLSNP	IPYNCLSNP	IPYNCLSNP	LKMSEYEN-	LRMTADNN	LRMTADNS	LRMTEDSS-	LINECOGNOO	PEDMINGNO-	LSITEREOP	TKKSCCENP	LINVCQDNQQ	LINVCEGYHI	TIMEEASY	WNECEGSN-	TINECDGITP.	ISMDEIMES
*	THRUTNYKED	MONNPNINE	MDNNPNINEC	MEEN-NONGC	ELQNINHEDC	TLEDLINYKEF	TLEELNYKEF	TLEELNYKEF	LLOSTNYKDU	TKLNSNKKYG	SLKMMYQDF	ALQMMNYKDY	PLKNTNYKDU	LMONTNYKDU	YLRWTHYKDU	VHKNGNYKDU	VMKNGNYKDU	STASFADCOC
40	RYPLAKDPOM				LKNETDI	OYPLAETPNP	OYPLADNPNS	OYPLADNPNS	RYPIENSPKO	TLPRHSLIHT	NYPTOKALSP	RYPFANEPTD	RYPLANKPNO	RYPLANPOOD	KYPLANDPUM	RYPFADDPNA	RYPFANDPNA	RYPFANDRDM
*	INSUMBNCYPI				-KVDKISTDS	-NNE VPTNHV	-NSELPTNHN	-NSELOTNHN	KKLNISNNYT	MIDSKTTLPRHSLIHTIKLNSNKKYGPGDMTNGNQ	DSNRTLNNSL	-STSVSSDSN	NGFSKSNNYSI	NDSKWSNTYP	NTCHMSNCYP	N-NMMMPN	NNINMPN	N-NTNKPN
20	CNEYEMLDALR				DKHQSFSSNA-	SEHDTIKITE	REYDTIKYTP	SEHDTIKYTP.	CNEYETLNASO		-MNLNNLDGYE!	NEYE I IDATP	CNEYEIFNAPSI	UNEYDILNASSI	MNSYQNICHEYE ILDAKRNTCHMSNCYPKYPLANDPQMYLRWTHYKDWINMCEEASYASS	MIQYQNKNEYE I LESSQN-NMMPNRYPFADD PNAVMKNGNYKDUVNECEGSN-	MAPYQAKSECELLNAPLNALINMPNRYPFANDPNAVMKNGNYKDULNECDGITP	CNEYELLESSS
**	MNSYKNE				MKLKNQDKHQSFSSNA-KVDKISTDSLKNETDIELQNINHEDCLKMSEYEN	MIRKGGRKANPNINSEHDTIKTIE-NNEVPINHVQYPLAETPNPTLEDLNYKEFLRMTADNN-	MIRMGGRKMNPNNRSEYDTIKVTP-NSELPTNHNOYPLADNPNSTLEELNYKEFLRMTADNS-	MAPANASEHDTIKYTP-NSELQTNHNQYPLADAPASTLEELMYKEFLRMTEDSS-	HINDAGNE		MNLNNLDGYEDSNRTLNNSLNYPTQKALSPSLKMMYQDFLSITEREQPEAL	NNG SH	MDAJANA ON	MHYYGN	MOASMW	MOYOW	HIDAGINA	NSYENKNEYEILESSSN-NTWAPNRYPFANDRDMSTMSFNDCQGISUDEIUES
										••	••							••
	exmi009	crylAa	crylAc	crylCa	crylla	cry3Aal	сгузва	cry3Bb	cry4Aa	сгубав	cry7Aa	сгувда	crylOAe	cry16Aa	cry19Ba	cry24Aa	cry25Aa	cry40Aal

	80 * 100 * 120 * 140 *		
exmi009	 AALSVRDAVLTGINSVGTILSNLGVPLASQSFGIISRLIGILWAGPDPFEALMVIVEELIKKSIDQRVRENAL	••	141
crylAa	 IETGYTPIDISLSLTQFLISEFVPGAGFVLGLVDIIUGIFGPSQUDAFPVQIEQLINQRIEEFARKQAI	••	9
crylAc	 IETGYTPIDISLSLTQFLLSEFVPGAGFVLGLVDIIUGIFGPSQUDAFLVQIEQLINQRIEEFARNQAI		9
crylCa	 ISTGNSSIDISLSLVQFLVSNFVPGGGFLVGLIDFV#GIPGPSQWDAFLVQIEQLINERIAEFARNAAI	••	96
crylla	 FVSASTIQTGIGIAGKILGTLGVPFAGQVASLYSFILGELWP-KGKNQWEIFMEHVEEIINQKISTYARNKAL	••	125
cry3Aal	 STITEDVIQKGISVVGDLLGVVGFPFGGALVSFYTWFLNTIUPSEDPUKAFMEQVEALMDQKIADYAKNKAL	••	138
сгузва	 STWKDAVGIGISWVGQILGVVGVPFAGALTSFYQSFLNAIUPSD-ADPUKAFMAQVEVLIDKKIEEYAKSKAL	••	139
cry3Bb	 STYKDAVGTGISVVGQILGVVGVPFAGALTSFYQSFLNTIMPSD-ADPWKAFMAQVEVLIDKKIEEYAKSKAL	••	13
cry4Aa	 SGELSAYTIVVGTVLTGFG-FTTPLGLALIGFGTLIPVLFPAQDQSNTWSDF1TQTKNIIKKEIASTYISNAN	••	138
cry6Aa	 FILSKQEWATIGAYIQTGLGLPVNEQQLRTHVNLSQDISIPSDFSQLYDVYCSDKTSAEUUNKNLY	••	102
cry7Aa	 ASGNTAINTVVSVTGATLSALGVPGASFITNFYLKIAGLLUPEN-GKIUDEFMTEVEALIDQKIEEFYFNKAI	••	124
cry6Aa	 FISSSTIQTGIGIVGRILGALGVPFASQIASFTVGQLWPSKSVDIWGEIMERVEELVDQKIEKYVKDKAL	••	135
crylOAe	 SETIVGVSAGIIVVGTMLGAFAAPVLAAGIISFGTLLPIFWQGSDPANVWQDLLNIGGRPIQEIDKNIINVLT	••	139
cryl6Aa	 AGLGKGLGIVSTIVGFFGGSIILDTIGLFYQISELLUPEDDTQQYTWQDIMNHVEDLIDKRITEVIRGNAI	••	136
сту19Ва	 GPSQLFKVGGSTVAKILG-MIPEVGPLLSUMVSLFUPTIEEKNTVWEDMIKYVANLLKQELTNDTLNRAT	••	128
cry24Aa	 ISPSPAAAITSKIVSIVLKTLAKAVASSLADSIKSSLGISKTITENNVSQVSKVQVHQIINRRIQETILLDLGE	••	125
cry25Ae	 SIFGTLGVLASIVISTINLATSPSIGDAFALVSSIGEYWPETKTSFPLSVADVNRLIREALDQNAINRAT	••	123
cry40Aal	 AETITSIGIDLIEFLMEPSIGGINTLFSIIGKLIPTN-HQSVSALSICDLLSIIRKEVADSVLSDAI	••	118

		160 * 180	*	200	*	220	
exmi009		R-ELEGLOGIMR-LYQTRLQAULVHKN	DDNRRALVTQYAIVDNFFEKNMPKFKERN-	IVDNFFEKNMPR	1	FEI :	 198
crylAa		S-RLEGLSNLYQ-IYAESFREUEADPT	NPALREEMRIQFNDMNSALTTAIPLLAVQN	DMNSALTTAIPL	LAVQN	. VQY	 .55
crylAc		S-RLEGLSNLYQ-IYAESFREWEADPT	NPALREEMRIQFNDMNSALTTAIPLFAVQN	DMNSALTTAIPL	FAVON	* ADA	 55
crylCa		A-NLEGLGNNFW-IYVEAFKEUEED PN	NPATRIRVIDRFRILDGLLERDIPSFRISG-	ILDGLLERDIPS	FRISG	FEV :	 154
crylla		T-DIKGLGDALA-VYHDSLESUVGNRN	NTRARSVVKSQYIALELMFVQKLPSFAVSG-	ALELMFVOKLPS	FAVSG	EEV :	 183
cry3Ael		A-ELQGLQNIVE-DYVSALSSWQKNPVSSRNPHSQCRIRELFSQAESHFRNSMPSFAISG	NPHSQGRIRELFS	DAESHFRNSMPS	FAISG	YEV :	 199
сгузва		A-ELQGLQNNFE-DYVNALDSWKKAPVNLRSRRSQDRIRELFSQAESHFRNSMPSFAVSK	SRRSQDRIRELFS	DAESHFRNSMPS	FAVSK	FEV :	 200
cry3Bb		A-ELQGLQMNFE-DYVNALMSUKKTPLSLRSKRSQDRIRELFSQAESHFRUSMPSFAVSKFEV	SKRSQDRIRELFS	DAESHFRUSMPS	FAVSK	FEV :	 192
cry4Ae		K-IINRSFNVIS-TYHNHLKTUENNPNPQNTQDVRTQIQLVHYHFQNVIPELVNSCPPNPSDCDYYNI	PONTQDVRTQIQ	LVHYHFONVIPE	LVNSCPPNI	SDCDYYNI :	 204
сгубав		PLIIKSANDIASYGFKVAGDPSIKKDGYFKKLQDELDNIVDNHSDDDAIAKAIKDFKARGG	YFKKL QDE LDNIVDNI	SDDDAIAKAIKD	FKARCG	. II	 165
CEY7Ae		A-ELDGLGSALD-KYQKALADWLGKQDDPEALLSVATEFRIIDSLFEFSMPSFKVTG	DPEALLSVATEFR	IIDSLFEFSMPS	FKVTG	YEI	 182
cry8Aa		A-ELKGLGNALD-VYQQSLEDULENRN	DARTRSVVSNQFIALDINFVSSIPSFAVSG	ALDLNFVSSIPS	FAVSG	HEV :	 193
crylOAs		S-IVTPIKNOLD-KYQEFFDKUEPART	HANAKAVHDLFTTLEPIIDKDIDMLKNNAS	TLEPITOKOLDM	LKWNAS	YRI	 197
сту16да		R-TLADLQGKVD-DYNNULKKUKDD PK	STGNLSTLVTKFTALDSDFNGAIRTVNNQGSP-	ALDSDFNGAIRT	VNNQGSP	GYEL :	 197
cry19Ba		S-NLSGLNESLN-IYNRALAAUKQNKN	NFASGELIRSYINDLHILFIRDIGSDFSLG	DINIFIEDIOS	DFSLG	GYET	 187
cry24Ae		S-SINGIVALYNRDYLGALEAUNNNKSNINYQTNVAEAFKTVEREFFTKIKGIYRTSS-	NINYQTNVAEAFK	IVEREFFIKLKG	IYRISS	: IDS	 185
cry25Aa	••	G-KFNGLMDTYNTVYLKNLQDWYDTRIPANPQGDSQLREAARRSLEETERDFRKALAGEFAEAG	POGDSQLREAARRSLE	EIERDFRKALAG	EFAEAG	: IDS	 189
cry40Asl	••	CRFLDGKLKHYREYYL PYLEAWLKDGKPLQKT-NNSDIGQLVKYFELSERDFNEILGGSLARNNAQI	KT-NNSDIGGLVKYFE	LSERDFWEILGG	SLARMN	AQI	 184

	257	214	214	213	242	258	529	251	271	225	241	252	263	257	246	242	256	529
300	CITFYNOG	AVRUYNTG	AVRUYNTG	CANTYNEG	CVKWYSTG	CVKUYNVG	CVNUTYNYG	CVNUVNVG	CVITYREG	SSPAHKEL	CIKUYNSG	CVKUYKIG	CIGTYNAG	CINUTANKE	CVNTYRSG	CVEVYTKG	CISYYDDG	CEYWYQAG
*	LOGLIREYKDHCITFYNOG	-LIRLIGNYIDYAVRUYNTG	LTRLIGNYIDYAVRUYNTG	LIRHIDEYADHCANIYNRG	-QVERAGDYSDHCVKWYSTG	QLKLTQEYTDHCVKWYNVG	OLKLTQQYTDHCVNUYNVG	DIKLTQQYTDHCVNUYNVG	DYYPVLTKALEDYTNYCVTTYKKG	ALNQAHGESSPAHKEL	OKKRISEYSDHCTKUYNSG	QVQLTAEYSDYCVKUYKIG	KRKIQEYTDY	QLEKTKEYTEYCINUYNKG	DKYYTEKYSNYCVNTYKSG	ALEDYTW	LERIKKYIDE	KCKIAEYTDY
280	TT	TT	T	T	0	0	0	0	DYYPVL		0	0	YQG-YLKRKIQEYTDYCIQTYNAG	P	0	ALEDYTNYCVEVYTKG	FESEF	DFTGDYYERL
*	İ	İ	l	ı	-	İ	ı	l	İ	į	1	ı	j	į	İ	1	į,	NSG
* 240 * 260	LILPVYAQAANLHLILLRDADYFG-AQUQLGDDEIRDNYIR	PLLSVYVQAANLHLSVLRDVSVFG-QRUGFDAATINSRYND	PLLSVYVQAANLHLSVLRDVSVFG-QRUGFDAATINSRYND	PLISVYAQAANLHLAILRUSVIFG-ERUGLTTINVMENYMR	PLLPIYAQAANLHLLLRDASIFG-KEUGLSSSEISTFYNR	LFLTTYAQAANTHLFLLKDAQIYG-EEUGYEKEDIAEFYKR	LFLPTYAQAANTHLLLKDAQVFG-EEUGYSSEDIAEFYQR	LFLPTYAQAANTHLLLKDAQVFG-EEWGYSSEDVAEFYHR	LVLSSYAQAANLHLTVLNQAVKFEAYLKNNRQFDYLEPLPTAI	IKEAKQYEE AAKNI VTSLD QFLHGD QKKLE GVINI QKRLKEVQT-	PLLTVYAQAANLHLALLRDSTLYG-DKWGFTQNNIEENYNR	LLLAVYAQAVNLHILLIRDASIFG-EEUGFTPGEISRFYNR	PTLPAYAQIATUHLNLKHAATYYNI WLQNQGINPSTFNSSNY	LLLPVYAQIANLHLLLRDAQIYGDKUWSARANARDNYYQI	WLLPSYASAANLHLLLRDVAIYG-KELGYPSTDVEFYYNE	TLLPTFTQAANLHLSMLRDAVMYQEGUNLQSHINYSKELDD	VILPIYAQAANIHLI ILKDAMQFRTD LGI IRPVGVPITTSAEDPFESEFLIRIKKYTDHCISYYDDG	LILPYFCASCKCQLLLIRDAVQYEEQUFFFLSAENVRSELISPNSGCDFTGDYYERLKCKIAEYTDYCEYUYQAG
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						••	••	•	••	••		••	••	••	•••	••	••	
	exminn9	crylAa	crylAc	crylCa	crylla	cry3Aal	сгузва	cry3Bb	cry4Ae	cry6Ae	cry7Aa	сгувда	cry10Ae	cryl6Aa	cry19Ba	cry24Ae	cry25Ae	cry40Aal

	321	275	275	277	306	320	321	313	339	278	305	316	324	319	312	306	322	325
	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••
*	/YTDPVGFTGVL	CYTNPVLEN	IRTVSQLTREIYTNPVLEN	-IQPVGQLTREVYTDPLINFNPQ	PYTDAIGTVHPH	NASAIGGLIA	FIDPLFTLM	FIDPIFSLN	LYQVINFEES	LENTAVQHIKN	VYTOPVSLSISN	PYTUPITAFILYT	TUSNVNTY	IYSDVINGEIYG	LYSDVINDHVYG	IYTDPVGRTDSP	VYTDPVGCFGNR	IYTD PVGYSSGT
360	SNAQDUVS FNRFRIDNTL TVLD LAILFPNYD PRRYFLAVKTELTREVYTD PVGFTGVL	IRTVSQLTREIYTNPVLEN	IRTVSQLTRE	IQPVGQLTRE	IKITAQLTREVYIDAIGTVHPH	KEVKTELTRDVLTDPIVGVN	KGVKTELTRDIFTDPIFTLN	KGVKTELTRDIFTDPIFSLN	LNLIKTTPDSNLDGNINUNTYNTYRTKMTTAVLDLVALFPNYDVGKYPIGVQSELTREIYQVLNFEES	LEKVKNLKTTLERTIKAEQD LEKKVEYSFLLGPLLGFVYYEILENTAVQHIKN	STYEQUINYNRFRREMILMALDLVAVFPHIDPRRYSMETSTQLTREVYTDPVSLSISN	LDKLKGTITSKSULNYHQFRRENTLIVLDLVALFPNYDTHMYPIETTAQLTRDVYTDPLAFNIVT	LIMIRTNINATUNNYNIYRLEMTLIVLDLIAI PPNYDPEKYPIGVKSELIREVYTNVNSDT	KTAGQUVNFNRYRREKTLTVLDIISMFPIYDARLYPTEVKTELTREIYSDVINGEIYG	RQIG-USDFNRYRRENTLSVLDIVALFPLYDTGLYPSKDGKIHVKAELTREIYSDVINDHVYG	STAIDULE FNSFREDNTLAVLDLVAIFPNYN PVRYPLSTKISLSRKIYTD PVGRTDSP	SDGETUME FINKFRRENTLTVLDLVALYPTHNIKLYPIPTQTELSRVVYTDPVGCFGNR	LNQIKQAGTGADTTAKFNKFRREMTLTVLDIIAIFQTYDFKKYPLPTHVELTREIYTDFVGYSSGT
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	NYD PRRYP-	NYDSRRYP-	MYDSRRYP-	MYDMRRYP-	SYDTONYP-	LYDVRLYP-	FYDVRLYS-	FYDIRLYS-	NYDVGKYP-	EYSFLIGP-	FIED PRRYS-	WYDTHMYP-	NYD PEKYP-	TYDARLYP-	LYDTGLYPS	NYMPVRYP-	THNIKLYP-	ITYD FKKYP-
340	VLDLAILFE	VLDIVALFS	VLDIVALFI	VLDIAAFFE	VLDLVALFI	VLDLIALFI	VLDLIVLF	VLDLIVLF	VLDLVALFI	AEQD LEKKY	ALDLVAVFI	VLDLVALFI	VLDLIAIF	VLDIISMF	VLDIVALFI	VLDLVAIF	VLDLVALY	VLDIIAIF
*	RFRIDHTLT	OFRRELTLT	OFRRELTLT	RLRRDLTLT	OFRRDMTLM	RYRREMTLT	RFRRENTLT	RFREENTLY	TYRTKHITA	-TTLERTIK	RFRRENILM	QFRRENTLL	TYRLENTLY	RYRRENTLY	RYRREMTLS	SFREDWILM	KFRREMTLT	KFRREMTLT
320	SNAQDUVSFR	PDSRDUVRYNQFRRELTLTVLDIVALFSNYDSRRYP	PDSRDUVRYNQFRRELTLTVLDIVALFPNYDSRRYP	STYQDUITYNRLRRDLTLTVLDIAAFFPNYDMRRYP	TWAE SUVRYNG FRADMTLMVLDLVALFPSYDTGMYP	SSYESUVNENRYRREMTLTVLDLIALFPLYDVRLYP-	STYDAUVKFNRFRRENTLTVLDLIVLFPFYDVRLYS-	LNGLRGSTYDAUVKFNRFRREMTLTVLDLIVLFPFYDIRLYS-	DGNINDNIYN	LK	STYEQUINYS	TTSKSULNYE	NINATUNHYD	RTAGGUVNF	KQIG-USDF	STAIDULEF	SDGETUNEFA	TGADTUAKFD
je			-	-	-				PDSNL									
	LNQFWR	LERVUG	LERVUG	LINIL PK	LWNLRG	LDKLRG	LNSLRG	LNGLRG	LNLIKT	LEKYKN	LSRING	LDKLKG	LTMIKT	LNDF	LESK	LWALRG	LAKIRSRG	LNGIKO
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	exmi009	crylAa	crylAc	crylCa	crylla	cry3Ae1	сгузва	cry3Bb	cry4Aa	cry6Aa	Cry7Aa	сгував	crylOAa	cry16Aa	cry19Ba	сгу24Ав	сгу25Ав	cry40Aal

	391	331	331	336	370	382	383	375	395	340	367	382	382	374	368	379	384	387
	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••
*	DGSEIT	GPSGP-	GFSGP-	NOOO	EFRTI-	IGSND-	IGSND-	IGSSK-	LDMIS-	IGAQIE	KSEOSM	KYRRT-	MDDRW-	TINS-S-	HGE GT-	GRIDAY	GGUTAS	GNGNFQ
* 440	DVRNIWGGHTLVENGNDGSEIT	FNYUSGHQITASPVGFSGP-	YYYUSGHQIMASPVGFSGP-	NFYUGGHRVISSLIGGGN	SNTQYMNMGGHKLEFRTI	NLRGYGTTFSNIENYIRKPHLFDYLHRIQFHTRFQPGYGNDSFNYUSGNYVSTRPSIGSND	ALQEYGPTFSSIENSIRKPHLFDYLRGIEFHIRLRPGYSGKDSFNYUSGNYVETRPSIGSND-	TIQEYGPTFLSIENSIRKPHLFDYLQGIEFHTRLQPGYFGKDSFNYUSGNYVETRPSIGSSK-	PYKYYDFQYQEDSLTRRPHLFTGLDSLNFYEKAQTTPNNFFTSHYNMFHYTLDNIS-	QIDEIKKQLDSAQHDLDRDVKIIGMLNSINTDIDNLYSQGQEAIKVFQKLQGIWATIGAQIE	PDIGPSFSQMENTAIRTPHLVDYLDELYTYTSKYKAFSHEIQPDLFYUSAHKVSFKKSEQSN	STG-FCNPWSTHSGILFYEVENNVIRPPHLFDILSSVEINTSRGGITLNNDAYINYUSGHTLKYRRT-	YDIFSFTGNAATHINDDRN-	LMTPYFSFEKAESLYTRAPHLFTULKGFRFVTNSISYUTFLSGGONKYSYTNNS-S-	LMVPYISFEHAESLYTRRPHAFTULKGFRFYTMSINSWTFLSGCENRYFLTHGEGT	SFGDUTINTGRILANFUDLEREVIDSPSLVKULGDMITYTGALDSYRPISPGDRIGVUYGNINAFYHIGRIDVV	KSDIFSRLNFDYLENRLTRPREPFNYLNSVQLFASTVSNSNNGEVLRGNLNKIMFEGGUTAS	YSULKYWTGAFNTLEANGTRGPGLVTWLRSIGIYNEYVSRYFSGWVGTRHYEDYTTGNGNFQ
420	İ	LYTDVHRG	LYTDAHRG	IFIDUFSVGR	IYSLLSRW	FHTRFQPGYGN	FHIRLRPGYSGK	FHTRLQPGYFGK	FYEKAQTTPN	TDIDMLYSQCQE	IYTSKYKAFSHE	INTSRGGITL	FYTRWSRDILDP	FVTNSIS	FVTMSIN	IYTGAIDSYRPTSPG	LFASTVSNSNNG	IYNEYVSRYFSG
*	YITULNRIF	LIENTION	LMDILNSIT	LFDILMNLT	LLDFLEQVT	LFDYLHRIQ	LFDYLRGIE	LFDYLQGIE	LFTULDSLN	LIGHLUSIN	LYDYLDELY	LFDILSSVE	LFTUINGGR	LFTWLKGFR	AFTULKGFR	LVKWLGDMT	PFNYLNSVQ	LVTULRSIG
400	E SGGRTY PUYNPUNTTFTAMENNARRRP SYTTULNRI FVYTRTLGNMS	FDGSFRGMAQRIEQNIRQPHLMDILNSITIYTDVHRG	FDGSFRGSAQGIERSIRSPHLMDILNSITIYTDAHRG-	LQSVAQLPTFNVMESSAIRNPHLFDLINNLTIFTDUFSVGR	PSF-TSTTWYNNNAPSFSAIEAAVVRNPHLLDFLEGVTIYSLLSRW	FSNIENYIRKPH	FESTENSIRKPH	FLSIENSIRKPH	QYQEDSLTRRPH	DSAQHDLDRDVK	SOMENTAIRTPH	YEVENNVIRPPH	TELENGLIRNPT	EKAESLYTRAPH	EHAESLYTRRPH	WOLEREVIDSPS	DYLENRLTRPRE	NTLEANGTRGPG
*	WYNPMNITE	-FDGSFRGR	-FDGSFRGS	GSVAQLPTF	TYNNNAPSE	-NLRGYGTT	-ALQEYGPT	-TLUEYGPT	PYKYYDF	QIDE IKKOI	PDIGPSF	WSTHSGILF	FRTI	-LMTPYFS	LMVPYISP	NTGRILAN	-DIFSRLNE	ULKYUTGA
380	ESGGRIYP		-	1	PSF-TSTI							STG-FCMP				SFGDUI	KS	YS
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	exmi009	crylAa	crylAc	crylCa	crylla	cry3Ael	cry3Ba	cry3Bb	cry4Ae	сгубАв	cry7Aa	cryBAa	cryloha	cry16Aa	cry19Ba	сгу24Ав	Cry25Ae	cry40Ael

	460	405	404	403	445	451	454	446	467	406	430	457	445	445	439	444	453	448
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520	HNFGKIDSITPIQYFNFANLSVFSIESLARIYLGGTEANNYITSQYGVSRVIFNTSNINNVPGSLRYEV	EFAFPLFCMAGNAAPP-VLVSLTGLGIFRTLSSPLYRRIILGSGPNNOELFVLDGTEFSFASLTINLPSTLYRQR	EFTFPLYGTMGMAAPQQRIVAQLGQGVYRTLSSTLYRRPFN-IGINNQQLSVLDGTEFAYG-TSSNLPSAVYRKS	TISPIYGREANQEPPRSFIFNGPVFRTLSNPTLRLLQQPUPAPPNLRGVEGVEFSTPTNSFIYRGR	GGTLNISTQGSTNYSINPVTLPFTSRDVYRTESLAGINLFLTQPVNGVPRVDFHUKFVTHPIASDNFYYPGYAGI	IITSPFYGNKSSEPVQNLEFNGEKVYRAVANTNLAVUPS-AVYSGVTKVEFSQYNDQTDEASTQTYDSKR	IIISPFYGDKSIEPIQKLSFDGQKVYRTIANTDIAAFPDGKIYFGVIKVDFSQYDDQKNETSTQTYDSKRY	TITSPFYGDKSTEPVQKLSFDGQKVYRTLANTDVAAUPNGKVYLGVTKVDFSQYDDQKUETSTQTYDSKRN	DKSSVFGNHNVTDKLKSLGLATNIYIFILNVISLDNKYLNDYNNISKMDFFIINGTRLLEKELTAGSGQITY	MIRITSLQEVQDSDDADEIQIELEDASDAMIVVAQEARDFTLNAYSTNSRQNIPINVISDSCNCST	LYTTGIYCKTSGYISSGAYSFHGNDIYRTLAAPSWVYPPYTQNYGWEQVEFYGVKGHVHYRGD	ADSTVITYTANYGRITSEKNSFALEDRD IFE INSTVANLANYQKAYGVPGSUFHNVRRGTSSTTAYLYSKIHTAL	IIUGAVHGMIISQDISKVFPFYRNKPIDKVEIVRHREYSDIIYEMIFFSNSSEVFRYSSNSTI	INEGSFRGQDTDYGGTSSTINIPSNSYVYNLUTENYEYIYPUGDPWITKMNFSVTDMNSSKELIYGAHRT	SESIYGAERM	SDAT	OCDHIFSL	RMSGTTSNDLRDISPPNSDIFKIESKAINNLVGEINARPEYRVSRAEFSESTAFIYLYDAG
*	IFNTSNINNVP-	VLDGTEFSFASI	VLDGTEFAYG-1	GVEGVEFSTP	DFHUKFYTHPIA	EFSQYNDQTD	DFSQYDDQKN	DFSQYDDQKII	DFFITNGTRLLE	NLPINVISDS	EFYGVKGHVH	UFHMVKRGTSST	SEVFRYSSNS	NFSVTDNNSS	MFSITDNSNS	RFFD IRGRAND	RSGDGVITGTPFSTYDUSYGUGYPRKHYAEITSRSQALPGLNNSIHVIVGIDSFRAIGPGG	TAFIYLYDAG
200	ITSOYGVSRV	GSGPWNQELF	FIGURADOLS	PUPAPPFNLR	TQPVNGVPRV.	-AVYSGVTKV	GKIYFGVTKV	IGKVYLGVTKV	TINDYNNISKY	TAMAYSTASRO	YTONYGVEDV	TOKAYGVPGS	IVENIFFSNS	UGD PVNITKM	WIDPVNITKI	MOTTFGVSS	NNSIHAIAGI	RVSRAEFSES
**	IYLGGTEANNY	LSSPLYRRIII	LSSTLYRRPFW	LSNPTLRLLQC	TESLAGINLFI	VANTINLAVUPS	TANTDIAAFPE	TANTDVAAUPE	TINVISLDNK	LVVAQEARDFT	TLAAPSWVYI	INSTVANLANY	EIVRHREYSD]	LUTENYEYLY	LUTKNYEULY	RAAAVSTIQG	ITSRSQALPGI	ILVGEINARPEY
480	SVFSIESLAR	SLTGLGIFRT	AQLEQGVYRT	FTFNGPVFRT	LPFTSRDVYR	EFNGEKVYRA	SFDGQKVYRT	SPDGQKVYRT	LGLATNIYIF	IELEDASDAW	YSFHGNDIYR	FALEDRDIFE	FYRMKPIDKV	NIPSNSYVYN	DISMNSSIYN	LYDDIYKLDL	HIGYPRKHYAE	FKIESKAIMN
460 *	TPIQYFNFANL	IAGNAAPP-VLV	MGNAAPQQRIV	EANQEPPRS	IGSTNTS INPVT	KSSEPVQNL	KSIEPIQKL	KSTEPVQKL	GNHINVTDKLKS	VODSDDADEIQ	CTSGYISSGA	MYGRITSEKNS	II I SQDTSKVFP	DTDYGGTSSTI	I YNGP FLGQDTEYGGTSSYLD I SNNSSIYNLUTKNYEU I YPWTD PWNLTKINFSITDNSNS-	MFRQTGDTAYEDPSTFISNILYDDIYKLDLRAAAVSTIQGAMDTTFGVSSSRFFDIRGRNQ-	TPFSTMDUSYG	LRDISFPNSDI
46	HNFGKTDS1	: EFAFPLFGM	: EFTFPLYG	-ITSPIYGE	GGTLNIST	IIISPFYGB	: TITSPFYGE	TITSPFYGE	OKSSVI	NIRITSLOP	: LYTTGIYGE	ADSTVIYI	: IIUGAVHGI	: INEGSFRG	: IYNGPFLG	: MFRQTGDTA	RSGDGVIT	: RMSGTTSNI
		"								,.	-		-	-		Ū		-
	exmi009	crylAs	crylAc	crylCa	crylla	cry3Ae1	сгузВа	cry3Bb	сгудав	сгубав	cry7Aa	cry8Aa	cry10Aa	cryl6Aa	cry19Ba	сгу24Ав	сту25Ав	cry40Aa1

	534	474	475	471	511	521	524	516	542	475	501	530	514	516	270	519	528	516
	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	
9	DKITQID	SQLTTQIP	DSITTOIL	ERINGIP	NSITOIP	KKITOIP	EKITOLP	EKITOLP	HLTTOIP	NN	NKITKIP	DKITQIP	DNITGIH	MKITGIP	DKINGIP	DEITGIP	DKITQIP	DKITQIP
*	SMDRINKLEP	SAEFWIIPS	SAEFNNILAS	SATLIMITIDE	SADRINTIEP	SVDFFNMIDS	SVDFFNTIDA	SVDFFNTIDA	SVDPKNTIYT	NAMOSNNAMO	SAEYYNRIYP	SADLMNTIYS	SVDFQNTIDL	SVDPNNTIAA	SVDRYNTIVP	SLDRWITLP	SAGNRNVYVY	SMSKYNLIYP
280	SLLTFGWAHT	RAPTFSWOHR	RAPMFSWIHR	TGVVFSUTHR	KALVYSUTHR	TIPVLTWIHK	TIPFFIUTHR	TIPFFIUTHR	OVYTFAUTHS	NEWLYWYN	TIPIFSUTHE	SFPVFVUTHT	RRVAFSUTHT	HIGYSFAFTHS	HIGYSFAFTHS	SELLSHAUTHA	SALSLGUHHS	INVYGUTHT
*	SS-SGGIV	AVYTI	INSSA	TE	H	R(R(B(SIPATYK	EYKCPE	DYDN	IG-SAYY	SVVREI	30R	30R	SNICEGR	IPTOTFAL	3R
260	PANLPSQTILSELPGKOKPRPNAGDFSHRLSYISNFDARRSS-SGGIVSLLTFGWAHTSMDRNNRLEPDKITQID	GTVDSLDVIPPQDNSVPPRAGFSHRLSHVTMLSQAAGAVYTLRAPTFSUQHRSAEFNNIIPSSQITQIP	GTYDSLDEIPPQNNNVPPRQGFSHRLSHVSMFRSGFSMSSVSIIRAPMFSWIHRSAEFNNIIASDSITQIP	GTVDSLIELPPEDNSVPPREGYSHRLCHATFVQRSGTPFLITGVVFSUTHRSATLINTIDPERLNQIP	GTQLQDSENELPPEATGQPNYESYSHRLSHIGLISASHVKALVYSUTHRSADRTWILEPNSITQIP	NVGAVSUDSIDQLPPETTDEPLEKGYSHQLNYVHCFLMQGSRGTIPVLTUTHKSVDFFNMIDSKKITQUP	NGYLGAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRRGTIPFFTWTHRSVDFFWTIDAEKITQUP	NGHVSAQDSIDQLPPETTDEPLEKAYSHQINYAECFLMQDRRGTIPFFTTUTHRSVDFFNTIDAEKITQUP	DVNKNI FGLPILKRRENGGNPTLFPTYDNYSHILSFIKSLSIPATYKTQVYTFAUTHSSVD PKNTIYTHLTTQIP	THMISNOYSNPTITMINSNOYMISHEYTSI.PNN FMI.SRNSNI.EYKCPENN FMI.YWYNNSDUYNNSDUYNN	NKYDLTYDSIDQLPPDGEPIHEKYTHRLCHATAIFKSTPDYDNATIPIFSUTHRSAEYYNRIYPNKITKIP	QGCTQVYESSDEIPLDRT-VPVAESYSHRLSHITSHSFSKNG-SAYYGSFPVFVJTHTSADLNNTIYSDKITQIP	ENNYKRIDSYMI PKQTWKNEEYGHTLSYIKIDNYI FSYVRERRRVA FSWIHISVD FQNTIDLDMITQİH	NKPVVRIDEDFLINKEGTELAKYNDYNHILSYMLINGETFGQKRHGYSFAFTHSSVDPNNTIAANKITQIP	NKPTVKTD FNFLLNRAGNGPTTYND YNHIL SYMLINGET FGQKRHGYSFAFTHSSVDRYNTIVPDKIYQIP	NKPYPSLPITITFPGEESSEGNANDYSHLLCDVKILQEDSSNICEGRSSLLSHAWTHASLDRNNTILPDEITQIP	PGGDMYDCCKVQINPLEDYRUSDHJISDMYTINQSVQLASNPTQTFAFSALSLGUHHSSAGNRNVYVYDKITQIP	NSGLSSMIITSKLPGIKNPEPSYRDYSHRLSNAACVGAGNSRINVYGGFHTSMSKYNLIYPDKITQIP
**	PRPNAGDFSE	SVPPRAGFSE	INVPPROGFSE	SVPPREGYSE	COPNYESYSE	DEPLEKGYSE	DEPLEKAYSE	DEPLEKAYSE	GNPTLFPTYL	TATE STATE	-EPIHEKYTE	-VPVAESYSE	CNEEYGE	ELAKYNDYNE	IGPTTYNDYNE	SEGNANDYSE	YRNSDHUISI	PEPSYRDYSE
540	LSELPGKDK	ILDVI PPQDN	SLDEIPPONN	SLIELPPEDK	SENEL PPEAT	TIDOLPPETT	IDOLPPETI	SIDQLPPETT	PILKRRENC	SNPTTNMTSN	SIDQLPPDG-	SEDEIPLDRI	SYMI PKOTUP	DFLTNKEG	MFLLMRAGN	TITFPGEE	KVQINPLEI	TSKLPGIKE
*	PANLPSOTT	GTVDS	GTVD\$	GTVD	GTQLQDS	NVGAVSUDS	NGYLGAODS	NGHVSAQDS	DVNKNIFGI	TWETSNOYS	NKYDLTYDS	OGCTOVYES	ENNYKRTDS	MKPVVRTD	MKPTVRTDI	MKPYPSLP1	PGGDMYDCC	NSCISSMI
	••	••		••			••		••	••	••	••	••		••			••
	exmi009	crylAa	crylAc	crylCa	crylla	cry3Aa1	cry3Ba	cry3Bb	cry4ka	cry6Ae	cry7Aa	сгував	crylOAa	cryl6Aa	cry19Ba	cry24Aa	cry25Aa	cry40Ae1

Amendment Dated: September 18, 2007 Reply to Office Action of June 20, 2007 REPLACEMENT SHEET Application No. 10/782,096

	596	542	547	239	579	589	594	586	909	1	269	597	579	582	212	584	597	584
		••	••	••	••	••		••	••	••	••	••	••	••	••	••	••	••
*	AVKGUGGNIGPVIPGPTGGNLVKVSDSUHSLKVQAPQRQTSYRIRLRYACLVTHGDAIPVEH	LIKSINLGSGISVVKGPGFIGGDILRRISPGQISTLRVNITAPLSQRYRVRIRYASITNLQFHTSIDG	AVKGNFLFNGSVIS-GPGFTGGDLVRLNSSGNNIQNRGYIEVPIHFPSTSTRYRVRYRASVTPIHLNVNUGN	LVKGFRVWGGTSVITGPGFTGGDILRRNTFGDFVSLQVNINSPITQRYRLRFRYASSRDARVIVLTGA	LVKAFNISSGAAVVRGPGFTGGDILRRTNTGTFGDIRVNINPPFAQRYRVRIRYASTTDLQFHTSING	LVKAYKLQSGASVVAGPRFTGGDIIQCTENGSAATIYVTPDVSYSQKYRARIHYASTSQITFTLSLDG	VVKAYALSSGASIIEGPGFTGGNLLFIKESSNSIAKFKVTLNSAALLQRYRVRIRYASTTNLRLFVQNSN	VVKAYALSSGASIIEGPGFTGGNILFLKESSNSIAKFKVTLNSAALLQRYRVRIRYASTINLRLFVQNSN	AVKANSLGTASKVYQGPGHTGGDLIDFKDHFKITCQHSNFQQSYFIRIRYASNGSANTRAVINI		AVKMYKLDDPSTVVKGPGFTGGDLVKRGSTGYIGDIKATVNSPLSQKYRVRVRYATNVSGQFNVYIND	ILGTFAVIVNGSLSQRYRVRIRYASTIDFEFTLYLG-	MDFRWRFLKNVSRQYQVRIRYATNAPKITVFLTGI	GLIMRFKAELLDKKYRVRIRYKCNYSSKLILRKGK	-FLSLRIK-LIASMIFRIRIRYASNISGOMMINIG-	VUSFKVYCSELKNYRVRIRYASHGNCOFLMKRUP	ATKTVREHPMIKGPGFTGGDLADLSSNS-DILQYDLRSDYDDRLTEDVPFRIRIRCASIGVSTISYDNWG	AVKAFDISDIGPGQVIAGPGHIGGNVVSLPYYSRLKIRLIPASINKNYLVRVRYISTSNGRLLVERUS
099	SYRIRLRYAC	RYRVRIRYAS	RYRVRVAS	RYRLRFRYAS	RYRVRIRYAS	KYRARIHYAS	RYRVRIRYAS	RYRVRIRYAS	SYFIRIRYAS		KYRVRVRYAT	RYRVRIRYAS	QYQVRIRYAT	KYRVRIRYKC	ITFRIRIRYAS	CAYRVRIRYAS	PFRIRIRCAS	CHYLVRVRYTS
*	TAPOROT	WILTAPLSO	PIHFPSTST	VNINSPIT	VNINPPFAC	VIPDVSYSQ	TLNSAALLO	TINSAALL	TCOHSNFOC		ATTWINSPLS(VIVARIOSLISC	WRFLKINSE	RFKAELLDF	RIK-LIASP	FKVYCSELP	YDDRLTEDY	RLIPASTNE
640	IKV	OISTLR	IONRGYIEV	DEASIG	TFGDIR	-NGSAATIY	-NSIAKFKV	-NSIAKFKV	-		YIGDIR	ILGTFA	THO FE	TLT9	1	ı	ILQYDLRSD	IKI
*	LVKVSDSUHS	ILRRTSPG	LVRLNSSGNN	ILRRNTFG	ILRRINIG	IIOCTE	ILFLKESS	ILLFLKESS	LIDFKDHFK-		LVKRGSTG	ILKRINPS	LVILKDS	LVKMRADS	LLKLEYER	LVKMSYHS	LADLSSNS-D	WVSI PYYSR-
620	IPGPTGGM	VVKGPGFTGG	IS-GPGFTGGE	VITGPGFTGGE	VVRGPGFTGG	VVAGPRFTGGE	ILEGPGFTGG	IEGPGFTGG	VVQGPGHTGGL		VVKGPGFTGGI	AVKGDMLYLGGSVVQGPGFTGGDILKRTNPS	ALKALKVSSDSKIVKGPGHTGGDLVILKDS	VVKASSINGSISIEKGPGFTGGDLVKMRADS-	AVKTNLVGANIIKGPGHTGGDLLKLEYER	AVTAYELRGNSSVVAGPGSTGGDLVKMSYHS	HIKGPGFTGGI	VIAGPGHTGG
*	WGGNIGFV	TALGSGTS	MFLFNGSV	FRVUGGTS	FNLSSGAA	YKLQSGAS	YALSSGAS	YALSSGAS	NSLGTASK		YKLDDPST	DMLYLGGS	LKVSSDSR	SSINGSIS	MLVGANII	YELRGMSS	VREHP	FDISDIGPG
	: AVKG	LIKS	: AVKG	: LVKG	: LVKA	: LVKA	: VVKA	: VVKA	: AVKA		: AVKM	: AVKG	: ALKA	: VVKA	: AVKI	: AVTA	: ATKT	: AVKA
	_														_			겊
	exmi009	crylAa	crylAc	CrylCa	crylla	cry3Ae1	стузва	cry3Bb	сгу4да	сгубав	cry7Aa	сгувда	cry10Ae	cryl6Ae	cry19Be	cry24Ae	cry25Ae	cry40Aal

	999	605	607	614	642	650	657	649	676	1	635	660	648	646	989	647	655	639
	••	••	••		••	••	••	••	••	••	••	••	••	••	••	••	••	••
340 *	THAIDKFEFIP	RPINGSNFSATMSSGSNLQSGSFRTVGFTTPFNFSNGSSVFTLSAHVFNSGNEVYIDRIEFVP	SSIFSNTVPATATSLDNIQSSDFCYFESANAFTSSLGNIVGVRNFSGTAGVIIDRFEFIP	ASTGVGGQVSVNMPLQKTMEIGENLTSRTFRYTDFSNPFSFRANPDIIGISEQPLFGAGSISSGELYIDKIEIIL	KAINQGNFSATMNRGEDLDYKTFRTVGFTTPFSFLDVQSTFTTGAUNFSSGNEVYIDRIEFVP	APFNQYYFDKTINKGDTLTYNSFNLASFSTPFELSGNNLQIGYTGLSAGDKVYIDKIEFIP	-EKIYIDKIEFIP	-EKIYIDKIEFIP	SIPGVAELG-MALNPTFSGTDYTNLKYKDFQYLEFSNEVKFAPNQNISLVFNRSDVYTNTTVLIDKIEFLP		KITLOTKFONTVETIGEGROLTYGSFGYLEYSTTIQFPDEHPKITLHLSDLSNNSSFYVDSIEFIP	DITERNRENKTMONGASLITYETEKEASFITDFQFRETQDKILLSMGDFSSGQEVYIDRIEFIP	DTISVELPsTISRONPNATDLIYAD FGYVIFPRIV PNKIFEGEDTLIMILYGTPNHSYNIYIDKIEFIP	GEGY1QQQIHN-ISPTYGAFSYLESFTTTTTENIFDLTMEVTYPYGRQFVEDIPSLILDKIEFIP	YONPTYFWIIPTISRDYTELKFEDFOLVDTSYIYSGGPSISSNTLULDNFSNGPVIIDKIEFIP	STGVAPRQUARHNVQGTFSNSMRYEAFKYLDIFTTTPEENNFAFTIDLESGGDLFIDKIEFTP	LLVDRIEIIP	INVDKVEFIP
7	i	NSG	SGT	FGAGSISS	2SG	SAG		VSN	NLLA		SMN	SSS	GTPNHS	DIP	SMG	SGG		
*	-PLIRYRTO	VFTLSAHVE	IVGVRNF	IIGISEOPL	TFTIGAUNE	NICIGALET	DFIIGAESF	ELIIGAESF	ILSLVFNRSD'		KITLHLSDL:	KILLSMGDF	EDTLLMTLY	YPYGRQ FVE	SNITTATDNE	-FAFTIDLE	TRLIROPGR	TILDNIDIT:
720	NISTIT	PFNFSNGS	JAFTSSLGN-	IPFSFRANPI	PFSFLDVQ	PFELSGB	SWIGFSCOTT	SNMGFSGDKD	VEVKFAPNON		TIOFPDEH	DFQFRETQI	STVPNKIFE	UIFDLTMEV	INSEGPSIS	TTPEENN	SNYYFDSAPE	VITTENOPGVE
*	963SHIVSFFDCSMSSGRPSNTLLESDFRYIDVPGIFTPSINPLIRYRTQSFG-	SCSFRIVGFI	SSDFGYFESA	SRTFRYTDFS	PKTFRTVGFT	FNSFNLASFS	NDFLVIYINKTMIDGDLTYQTFDFATSNSNMGFSGDTNDFIIGAESFVSN	NDFLVIYINKIMMKDDDLTYQTFDLATINSNMGFSGDKNELIIGAESFVSN	PROFUTEFS		FGSFGYIEYS	TET FREASFT.	YAD FGYVIFP	LESFITITE	FED FOLVOTS	YEAFKYLDIF	SSSPQVTVASTAASLDTLKYESFQYVSIPGNYYFDSAPRIRLIRQPGR	PSSIINSYFFLPSTGPGDSFGYVDTLVTTFNQPGVEIIIQNLDTP
700	SGRPSNTLL	THESESNIO	KTATSLDNLQ	TIMEIGENLT	THURGEDID	CTINKEDTLT	TIGOGINATION	THUKODOLT	SGIDYTMLK		TIGEGROLT	CIMDNGASLT	RONPNATELT	TYGAFSY	TSRDYTELK	TOGIFSNEM	STAASLDTLK	SYFFLPSTGP
*	IVSFFDCSN	NFS	TAD.	GUSVINIPLO	S-IN	(FDI	[MI2	(NI)	ELG-KALNPT		CFQNTVI	RFW	PSTISI	JOIHWISP	TIYEN-IIP	RUBARHIV	rAA	WIIS
680	: SGSSE	: RPINGG-	: SSIFSN-	: ASTGVGC	: KAINOG-	: APFNQYS	: NDFLVI	: NDFLVIN	: SIPGVAE		: KITLOTT	: DTIEKN-	: DTISVE	: GEGYIO	YOM	: STGVAPF	: SSSPQV	. PS
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	exm1009	crylAa	crylAc	crylCa	crylla	cry3Ae1	сгузва	cry3Bb	Cry4Aa	cry6Aa	CEY7AB	скував	cry10Ae	cryl6Ae	cry19Be	cry24Ae	cry25Aa	cry40Ael

270

	1: 682	: 628	: 630	: 637	: 665	. : 652	. 1 659	.: 652	1 : 702		: 658	: 683	1 : 674	.: 648	i: 659	673	1: 674	1: 665
* 094	LUTFPNQSLEKREQEVNDLFIN	AEVIFEAEYDLERAQKAVNELFI	VTATLEAEYNLERAUKAVNALFT	ADATFEAESDLERAQKAVNALFT	VEVIYEAEYDFEKAGEKVTALFT	MA	DA	AQL	ITRSIREDREKQKLETVQQIINTFYA		VDVNYAEKEKLEKAQKAVNTLFT	VDETYEAEQDLEAAKKAVNALFT	ITQSVLDYTEKQNIEKTQKIVNDLFV	TW	LGITLNQAQGYDTYDQNANGMYH	VSGSAFEYEGKÜMIEKTÜKAVNDLFI	WNFFPLSEQENKSVDSLFI	VNSTALEYEGKOSLEKAODVVNDLFV
	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••
	exmin009	crylAa	crylAc	crylCa	crylla	cry3Ael	cry3Be	cry3Bb	cry4Aa	cry6Aa	cry7Ae	cry8Ae	crylOAe	cry16Aa	cry19Ba	cry24Ae	cry25Ae	crv40Aal